

EXTRACTION PROCESS USING A NOVEL ORGANIC ACID AS A LIQUID ION
EXCHANGER; LIQUID ION EXCHANGER OF ALKYL

2,3-BIS(ALKANOYLOXY)DIANEDIOTE AND ION EXCHANGE PROCESSES

Document Type: UTILITY

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Abstract:

This invention provides novel organic acids which exhibit utility as liquid ion exchanges suitable for use in an invention solvent extraction process. Illustrative of an invention organic acid is a compound corresponding to the formula:

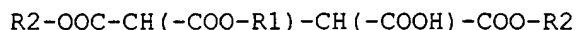
D R A W I N G

where each of R1 and R2 is a C3-C16 branched alkyl group.

Exemplary Claim:

D R A W I N G

3. In a process for conducting a liquid extraction in a system which contains at least one aqueous phase and at least one organic phase and involves the transfer of a solute contained in one phase across an interface and into the adjacent phase, the improvement which comprises including a liquid ion exchanger in the organic phase characterized by the formula:



where R1 is a C2-C11 linear alkyl group or a C3-C16 branched alkyl group and R2 is a C1-C11 linear alkyl group or a C3-C16 branched alkyl group, and at least one of R1 and R2 is a C3-C16 branched alkyl group.

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